IN THE CLAIMS

Please amend the claims as follows:

- 1. (Currently Amended): A method for control of an automatic transmission [[(3)]] of a vehicle provided with an engine [[(2)]] that drives the transmission [[(3)]], in which method comprising:
 - [[-]] detecting a downhill-travel situation of the vehicle is detected and;
 - [[-]] a transmission ratio is chosen such that the engine (3) absorbs energy,

characterized in that storing a longitudinal speed (Vmin) at [[the]] a beginning of downhill travel is stored the downhill-travel situation in a memory when the vehicle begins a downhill-travel situation and;

[[-]] as long as the vehicle is in during the downhill-travel situation, comparing [[the]] a current speed [[(V)]] of the vehicle is compared with the speed (Vmin) at the beginning of downhill travel in such a way that: the downhill-travel situation; and

based on the comparing, choosing a transmission ratio such that the engine absorbs energy, comprising [[-]] instructing the transmission to initiate downshifting if the current speed [[(V)]] exceeds the speed (Vmin) at the beginning of downhill travel the downhill-travel situation by a predetermined deviation [[(VS)]], the transmission is then instructed to initiate downshifting

wherein the detecting the downhill-travel situation includes detecting whether a brake is applied via a brake pedal and, when the brake is applied, the downhill-travel situation is not detected.

2. (Currently Amended): A control method according to claim 1, characterized in that wherein the downhill-travel situation is detected if [[the]] a slope [[(P)]] on which the vehicle is traveling is greater than a predetermined threshold slope (PS), if the power demand (Acc)

of the engine is smaller than a predetermined power threshold (AccS), and braking is absent.

3. (Currently Amended): A control method according to claim 1, characterized in that it includes an additional test step (28) further comprising:

verifying that, before the downshifting is initiated, [[the]] an energy-absorption capacity of the engine is smaller than a predetermined power threshold.

- 4. (Currently Amended): A control method according to claim 3, characterized in that wherein the absorption energy-absorption capacity of the engine is determined by [[the]] an engine speed (NTA).
- 5. (Currently Amended): A control method according to claim 3, characterized in that wherein the predetermined power threshold (NS) of power absorption capacity is an increasing function of [[the]] a slope [[(P)]] on which the vehicle is traveling.
- 6. (Currently Amended): A control method according to claim 1, eharacterized in that wherein the deviation [[(VS)]] from predetermined the speed at the beginning of the downhill-travel situation is between 5 and 10 km/h.
- 7. (Currently Amended): A control method according to claim 1, characterized in that wherein the vehicle is equipped with a speed-governing system.
- 8. (Currently Amended): A system for control of an automatic transmission [[(3)]] of a vehicle provided with an engine [[(2)]] that drives the transmission [[(3)]], the system being provided with comprising:

an electronic unit configured to:

- [[-]] means for identifying identify a downhill-travel situation of the vehicle, [[and]]
- [[-]] means for choosing a transmission ratio so that the engine absorbs energy, characterized in that it is additionally provided with:
- [[-]] means for measuring and storing measure and store in a memory [[the]] a longitudinal speed (Vmin) when the vehicle begins a at a beginning of the downhill-travel situation,
- [[-]] means for comparing the compare a current speed [[(V)]] of the vehicle with the speed (Vmin) at the beginning of downhill travel the downhill-travel situation, and[[;]]
- [[-]] means for instructing instruct the transmission to initiate downshifting if the current speed [[(V)]] exceeds the speed (Vmin) at the beginning of downhill travel the downhill-travel situation by a predetermined deviation [[(VS)]].

wherein the electronic unit does not identify the downhill-travel situation if a brake is applied via a brake pedal.

9. (Currently Amended): A vehicle, comprising: provided with an engine;

[[and]] an automatic transmission[[,]] <u>driven by the engine; and</u>

characterized in that it is provided with the system according to claim 8 [[for]] <u>to</u>

control [[of]] the automatic transmission.

10. (New): A control method according to claim 1, wherein the downhill-travel situation is not detected if an accelerator pedal is depressed such that a power demand of the

engine is larger than a predetermined power threshold.

11. (New): A system according to claim 8, wherein the electronic unit is configured to verify that, before the downshifting is initiated, an energy-absorption capacity of the engine is smaller than a predetermined power threshold.

12. (New): A system according to claim 11, wherein the energy-absorption capacity of the engine is determined by an engine speed.

13. (New): A system according to claim 12, further comprising: an engine controller configured to measure the engine speed.

14. (New): A system according to claim 11, wherein the predetermined power threshold is an increasing function of a slope on which the vehicle is traveling.

15. (New): A system according to claim 8, wherein the electronic unit does not detect the downhill-travel situation if a power demand of the engine from an accelerator pedal being depressed is larger than a predetermined power threshold.